

WHAT IS CLAIMED IS:

1. A duplex optical transceiver, comprising:
 - a light source;
 - a sensor;5 a connector for optical cable, the connector for optical cable including an optical cable lengthwise disposed therein;
 - a ring-shaped clinging member formed of metal;
 - a hollow, cylindrical body formed of plastic, the body including a first opening at an open end coupled to the light source, a second opening on the 10 peripheral surface coupled to the sensor, and a recessed, annular shoulder at the other end; and
 - a filter mirror disposed within the body for deflecting light emitted by the light source to an optical fiber of the optical cable and reflecting light incident onto the optical fiber to the sensor,15 wherein the clinging member is operative to insert into the shoulder for fastening by snapping.
2. The duplex optical transceiver of claim 1, wherein the shoulder has an internal, annular ridge and the clinging member has an outer, annular groove being operative to matingly secure to the ridge when the clinging member and 20 the shoulder are fastened together.